

# **ABSTRACT OF THE DISCLOSURE**

An isolated and purified human receptor tyrosine kinase is described. A cDNA sequence which encodes the native polypeptide is disclosed as well as the structural coding region and the amino acid residue sequence of the tyrosine kinase. Methods are provided which employ novel sequences to identify compounds that modulate the biological and/or pharmacological activity of the tyrosine kinase and hence regulate cellular and tissue physiology. Biologically-effective antisense molecules, as well as dominant negative mutant versions of the kinase, are described which are suitable for therapeutic use. The invention is also related to the diagnosis, study, prevention, and treatment of pathophysiological disorders related to or mediated by the biological molecule.